

HEALING BAT



D34

Report on dissemination (including publications and event), exploitation, communication measures and materials -
Update 1

Joana Tarana, FI Group
Marina Marcos Macarro, FI Group
Sofia Oliveira, FI Group

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1. EXECUTIVE SUMMARY

1.1. HEALING BAT's details

Project name	Advanced sensing, monitoring and self-HEALING mechanisms to self-repair BATteries
Project acronym	HEALING BAT
Grant Agreement number	101104006
Duration and dates	48 months (1 June 2023 – 31 May 2027)
Call and topic	HORIZON-CL5-2022-D2-01-06: Embedding smart functionalities into battery cells (embedding sensing and self-healing functionalities to monitor and self-repair battery cells)
Granting authority	European Climate, Infrastructure and Environment Executive Agency (CINEA), under the powers delegated by the European Commission
Official project website	healingbat.eu

1.2. The HEALING BAT consortium

N°	NAME	ROLE	COUNTRY
1	Technische Universitat Dortmund (TUD)	Coordinator	Germany
2	Helmholtz-Zentrum Berlin für Materialien und Energie GMBH (HZB)	Beneficiary	Germany
3	Technische Universiteit Delft (DEL)	Beneficiary	The Netherlands
4	Idneo Technologies SAU (IDN)	Beneficiary	Spain
5	Fundacio Institut de Recerca de l'Energia de Catalunya (IREC)	Beneficiary	Spain
6	F. Iniciativas, Consultadoria e Gestao, Unipessoal, LDA (FIG)	Beneficiary	Portugal
7	Suprapolix BV (SUP)	Beneficiary	The Netherlands
8	Paul Scherrer Institut (PSI)	Associated partner	Switzerland
9	Centre for Process Innovation Limited LBG (CPI)	Associated partner	United Kingdom
10	Coventry University (COV)	Associated partner	United Kingdom

1.3. Project summary

HEALING BAT aims to develop and implement self-healing concepts and materials in the critical battery components used in conventional Li-S batteries and extrapolate the ideas to develop a new class of self-healing structural batteries based on Li-S by investigating at the cell & component level.



It will be built a toolbox of self-healing materials, sensors, and a customized Battery Management System to maximize the performance of the produced Li-S battery in terms of Quality, Reliability, and lifetime and to avoid or repair occurring damages. The BMS's goal is to govern the flow of energy to and from the battery system, monitoring sensor data with computational methods to identify events indicating degradation, as well as initiate self-healing actions.

The resulting solution will revamp the European sector of rechargeable batteries with high round-trip efficiency energy storage for numerous applications, as specified in the EU Green Deal, consequently promoting innovative ideas needed to develop future sustainable batteries which demand fewer resources and create the groundwork for EU competitiveness.

The project will be aligned with the [BATTERY 2030+](#) large-scale initiative within their "Integration of smart functionalities" theme, which supports sensing and self-healing.

1.4. Document details

Deliverable type	R – Document, report
Deliverable n°	D34
Deliverable title	Report on dissemination (including publications and event), exploitation, communication measures and materials – Update 1
Lead beneficiary	FI Group
Work package and task	WP7, T7.3
Document version	V1.0
Contractual delivery date	31 May 2025
Actual delivery date	17 June 2025
Dissemination Level	PU - Public
Purpose	This document reports all communication, dissemination, and engagement activities implemented in the HEALING BAT project from its start until M24. Moreover, it assesses the impact achieved by those activities, according to the objectives, target groups, and KPIs defined in HEALING BAT’s updated plan for Dissemination and Exploitation, including Communication activities (D33).

1.5. Document’s revision history

The following table describes the main changes done in the document since it was created.

REVISION	DATE	DESCRIPTION	AUTHOR (PARTNER)
V.0.1	22/04/2025	First draft	Sofia Oliveira (FI Group)
V0.2	07/05/2025	Second draft	Marina Marcos Macarro (FI Group)
V.0.3	09/05/2025	Third draft	Joana Tarana (FI Group)



REVISION	DATE	DESCRIPTION	AUTHOR (PARTNER)
V.O.4	13/05/2025	Fourth draft	Enric Comas (IDNEO)
V.O.5	16/05/2025	Fifth draft	Joana Tarana (FI Group)
V.O.6	17/06/2025	Sixth draft	Joana Tarana (FI Group)

1.6. List of terms and acronyms

ABBREVIATION	EXPLANATION
BMS	Battery Management System
CINEA	European Climate, Infrastructure and Environment Executive Agency
CTR	Click-Through Rate
D[number]	Deliverable [number]
D&C	Dissemination & Communication
D&C&E	Dissemination & Communication & Exploitation
DME	Dimethoxyethane
EC	European Commission
EU	European Union
GDPR	General Data Protection Regulation
KER	Key Exploitable Result
KPI	Key Performance Indicator
LCA	Life Cycle Analysis
Li-S	Lithium – Sulfur
M[number]	Month [number]
PDEC	Plan on Dissemination and Exploitation, including Communication activities
PR	Press release
QRL	Quality, Reliability and Life
SEO	Search Engine Optimisation
SME	Small or Medium Enterprise
SOC	State of Charge
SOH	State of Health
SOTA	State of the art
T[number]	Task [number]
TEA	Technoeconomic analysis
UI	User Interface
UX	User Experience
WP[number]	Work Package [number]



1.7. Disclaimer

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2. INTRODUCTION

The HEALING BAT project continues its mission to innovate the batteries of the future by making them smarter and more sustainable. By focusing on the development and implementation of self-healing materials and strategies in key battery components, particularly within conventional lithium-sulphur (Li-S) batteries, the project aims to revolutionize battery technology. As part of the BATTERY 2030+ initiative, HEALING BAT is committed to enhancing the sustainability and competitiveness of the EU battery cell industry.

This deliverable, "Report on dissemination (including publications and events), exploitation, communication measures and materials - Update 1" provides an update on the dissemination, exploitation, and communication (D&C) activities carried out from M13 to M24 of the project. Building on the foundations laid in the first year, this report highlights the progress and achievements made during the second year of the project.

During this period, the project has transitioned from the awareness phase to the engagement phase, focusing on deepening stakeholder engagement and disseminating project results. Key activities have included the participation in workshops and third-party events, publishing research findings, and expanding the project's online presence together with the strengthening of the interactions with the sister projects and the BATTERY 2030+ initiative.

As the leader of WP7, FI Group has continued to coordinate these efforts, monitor key performance indicators (KPIs), and facilitate the contributions of consortium partners. Regular consortium meetings, led by TU Dortmund, have ensured effective coordination and reporting of these activities. During this period, the first review meeting took place in Brussels and an overview and update of the results until M18 was done.

This document, D34, drafted by FI Group with inputs from consortium partners, serves as a detailed account of the D&C activities and their impact during the second year of the HEALING BAT project.



3. OVERVIEW OF D&C PROGRESS AND IMPACT

The second year of the project has been very active in terms of communication and dissemination, implementing the actions foreseen in the **awareness** phase and proceeding to the beginning and establishment of the **engagement** phase.

Following the strategy (D7.1) and after setting up the required tools and materials (visual identity, website - D7.2 -, social media channels, promotional materials, etc.), as well as releasing the first communication materials in the first year of the project (D7.3), FI Group with other partners' support kept working on disseminating and growing HEALING BAT's community in the second year. The second and third newsletters were released after a campaign to get subscribers and with relevant content that integrates all communication channels and partnerships, the first success story and scientific publication were published, the collaborations with sister projects and Battery 2030+ have been growing and more communication materials and activities were released (the general overview presentation of the project, the first media interview, two infographics and a consortium map).

3.1. Communication, dissemination, and exploitation deliverables

The following table lists the status of the deliverables related to the project's communication, dissemination and exploitation activities, as part of tasks T7.1, T7.2, T7.3, and T7.5.

No	DELIVERABLE TITLE	LED BY	DUE	STATUS BY M24
D7.1	Plan for Dissemination and Exploitation, including Communication activities	FI Group	M6	Submitted
D7.2	Website of the project	FI Group	M3	Submitted
D7.3	Report on dissemination (including publications and event), exploitation, communication measures and materials	FI Group	M12	Submitted
D7.5	IPR Strategy Plan	FI Group	M18	Submitted
D7.6	Paper on project recommendation	FI Group	M48	To do
D7.8	Review of D7.1	FI Group	M18	Submitted
D7.9	Report on dissemination (including publications and event), exploitation, communication measures and materials - Update 1	FI Group	M24	Ongoing
D7.10	Report on dissemination (including publications and event), exploitation, communication measures and materials - Update 2	FI Group	M48	To do

Table 1. Overview of D&C&E deliverables.

3.2. Communication and dissemination activities and impact

The following table summarises the activities that have been performed for each communication and dissemination tool from M13 until M24. Further details will be provided in the next sections.

C&D TOOL	ACTIVITIES	IMPACT
Visual identity	1 poster template Updates on existing templates	The visual identity is being used in all the project communication materials
Project website	1 news webposts 2 events webposts	2,364 sessions and 1,153 users 24.8% engagement rate 9,341 impressions and 4.3% CTR on Google Search

C&D TOOL	ACTIVITIES	IMPACT
LinkedIn	42 posts	450 followers 26,783 total impressions 9.9% average engagement rate
X/Twitter	43 tweets (including threads)	80 followers
Project videos	1 video	Shared on the project's YouTube channel, website, and social media, and available to be used by partners
Project newsletters	2 newsletters	29 subscribers 50% opening rate 10.9% click rate
Other supporting communication materials	1 infographic 1 consortium map 1 success story	Shared through the communication channels of the project
Press releases and media	1 interview	Shared on the project's YouTube channel, website, and social media
Offline promotional materials	1 general overview presentation Updates on existing materials	Shared through the communication channels of the project and distributed to partners for any events
Scientific and professional publications	1 scientific publication	Recently shared on the resources webpage of HEALING BAT's website and to be disseminate through the communication channels of the project and among partners and stakeholders (e.g. sister projects and B2030+ CSA)
Participation in third-party events	Participation in 5 third-party events (2 workshops, 3 Conferences)	Reaching a variety of project stakeholders, including academia, industry, and similar research projects
Partners' communication channels	2 website references 3 social media posts	Reaching the existing followers and community of the partners

Table 2. Overview of D&C activities and impact.

3.3. Communication and dissemination KPIs

The following table shows the **M24 status** of the different KPIs that were established in the project in the Plan for Dissemination and Exploitation, including Communication activities (D7.1). Further details will be provided in the next sections of this deliverable.

C&D TOOL	KPI TARGET	KPI STATUS BY M24
Project website	1,000 views per year (4,000 in total)	4,756 views (sessions)
LinkedIn	3 posts per month	3.5 posts per month (60 in 17 months)
X/Twitter	3 posts per month	3.5 posts per month (60 in 17 months)
Project videos	2 videos	1 video
Project newsletters	8 newsletters	3 newsletters
Press releases and media	4 press releases 3 articles 1 interview	1 press release 0 articles 1 interview
Other supporting communication materials	4 infographics 16 success stories 8 good practices	1 infographic 1 success story 0 good practices
Scientific publications	12 scientific publications	1 scientific publication
Professional publications	12 professional publications	0 professional publications
Informal paper on project recommendations	1 informal paper	0 informal papers
Project events	2 workshops 1 final conference	0 workshops 0 final conferences

Offline promotional materials	1 brochure	1 brochure
	1 rollup	1 rollup
	1 poster	1 poster
	1 PPT presentation	1 PPT presentation

Table 3. Overview of D&C KPIs



4. PROJECT’S VISUAL IDENTITY

In the previous period, FI Group developed the whole visual identity of the project, including its logo, its brandbook, and project templates for documents, all of which are available for the project partners and were included in the deliverable D7.1.

Templates for all documents to be used within HEALING BAT project were updated according to the instructions received in the reporting period (M18) and updated in the shared folder with the consortium (on sciebo platform).



Figure 1. Updated statement

In April 2025, FI Group designed a **new template**, this time devoted to **conference posters**, and still following the visual identity of the project. That template is available for any partner that would like to use it when creating a poster to disseminate its results related to HEALING BAT at any conference.

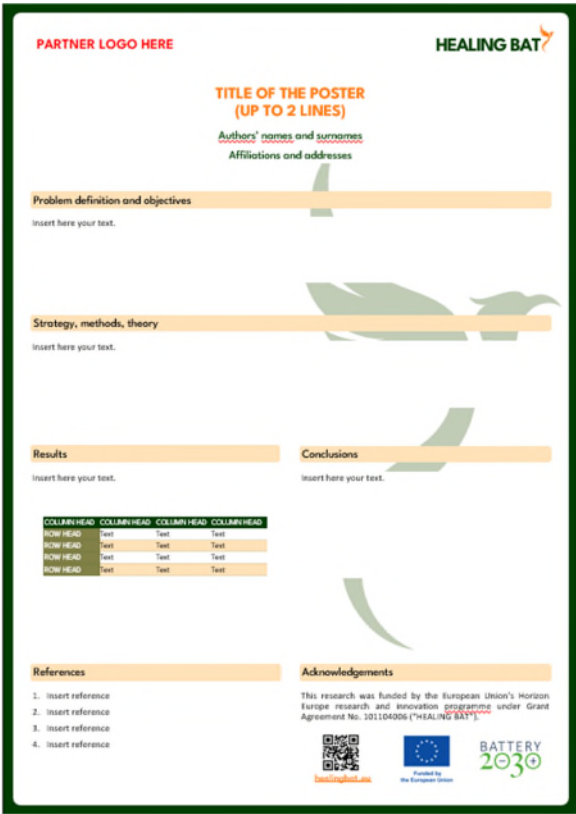


Figure 2. Template for conference posters.

5. ONLINE COMMUNICATION AND DISSEMINATION TOOLS

5.1. Official website

The HEALING BAT website was delivered on M3 (August 2023), to serve as the central communication channel of the project in the digital environment and so it remains since M13 / June'2024. FI Group has been responsible for the website development and maintenance, including feeding it with new content on a regular basis, while the other consortium partners have contributed by providing information on their organisations and project activities. Information and details regarding its structure were included in deliverables **D7.1 Plan for Dissemination and Exploitation, including Communication activities** and particularly **D7.2 Website of the project**. The website is open access, and available at the URL healingbat.eu.

5.1.1. Website posts

During this period, a total of **3 webposts** (blog posts) have been published so far on the website: 1 in the section News & Articles and 2 in the section Events. Following the content plan for HEALING BAT, these posts include content that attracts target groups and keeps them informed and engaged, while also ensuring a good positioning of the website on Google Search (SEO). All the posts were shared on social media and newsletters as well as within sister projects and Battery2030+ CSA.

TITLE AND LINK	DATE (MM/DD/YYYY)	VISITS
Success Story #1 Pioneering Next-Gen Battery Technology with the First Thin-Film Innovative Prototype Sensors - HEALING BAT	11/28/2024	90
HEALING BAT's third General Assembly	11/29/2024	59
IREC's workshop on in situ and operando techniques	11/08/2024	50

Table 4. Website news, articles and events published.



Figure 3. New website posts.

Moreover, the [Resources section](#) is constantly being updated with new files, such as promotional materials, publications, or deliverables. A total of 16 resources are currently available there, and the page has achieved 359 views/sessions during this period.

5.1.2. Website performance and monitoring

During this period (M13-M24), the project’s website has achieved **2,364 views (sessions)** from 1,153 users, with an engagement rate of 24.8%. Taking into account the full 24 months of project lifetime, a total of **4,756 views (sessions)** have been reached, which means surpassing the KPI for the whole project in only half of its lifetime.



Figure 4. Website analytics M13-M24 (Google Analytics).

In the following screenshot from Google Analytics, the time evolution of the website visits/sessions can be observed during this period (filtered by the event “session_start”).



Figure 5. Evolution in website views/sessions (Google Analytics).

Moreover, the **SEO techniques** implemented have led to a good performance of HEALING BAT’s website on Google Search, with a growth in impressions and clicks registered on Google Search Console. During this period, a total of **9,341 impressions** and 406 clicks have been achieved, with an average click-through rate (CTR) of **4.3%** and displayed in the 22nd position on average in result pages.

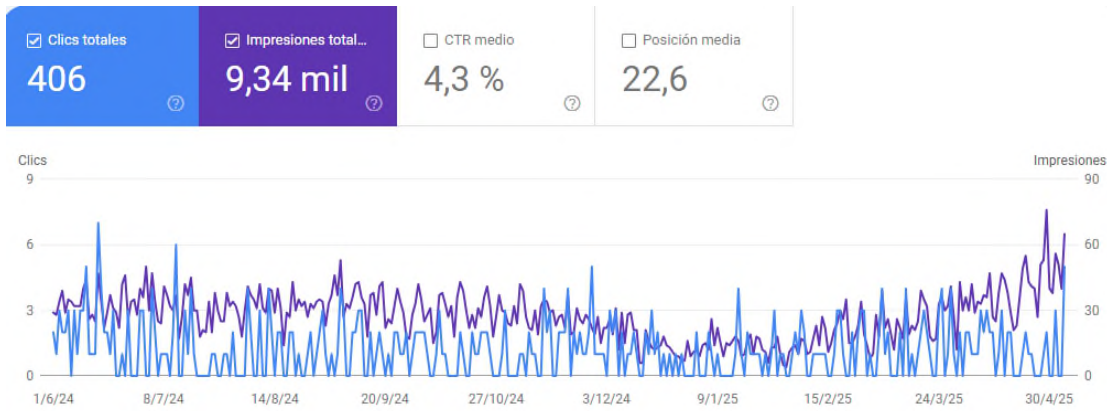


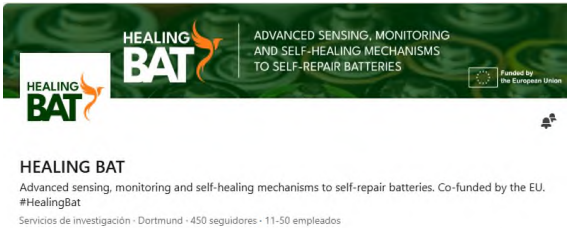
Figure 6. Evolution in impressions and clicks on Google Search M13-M24 (Google Search Console).

5.2. Social media channels

As established in the Communication and Dissemination Plan (D7.1), the HEALING BAT project has created three social media accounts: a [LinkedIn page](#), an [X/Twitter profile](#), and a [YouTube channel](#). Although these accounts were initially set up in August 2023 to be linked on the website in time for its launch, they were not officially launched until January 2024, when posts started to be frequent.



LinkedIn



Twitter/X



YouTube

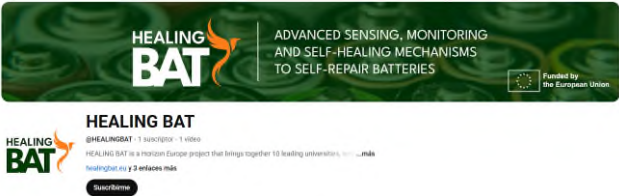


Figure 7. HEALING BAT social media channels.

5.2.1. Content strategy for the website and social media

The purpose of the **content strategy** is to ensure that the website and social media channels of the project are frequently fed with new, valuable content, keeping the target groups informed and engaged, and improving the positioning for the project in the web search engines and social media algorithms.

According to D7.1, at least **3 posts per month** are to be published, allowing us to focus our efforts on producing quality content while also feeding the social channels, thus avoiding being penalised by the social network algorithm (which will showcase less the publications of accounts with little activity). Nevertheless, there might be certain periods of inactivity due to holiday periods in Europe, where audiences are more disconnected. The content strategy pivots around a series of **topics**, social media hashtags, SEO keywords, and formats, which were defined in the previous period and reported in D7.3.

Bearing in mind this strategy, FI Group has now developed a **content calendar** to allow for effective planning of social media contents, taking into account the most relevant project events, activities, results, or publications; any international days related to the HEALING BAT's field of research and European Union values, as well as relevant happenings from related projects and initiatives. Moreover, the posts are aligned with other tools and actions of the project, namely the website, newsletter, or videos, among others.

		JANUARY - M20					FEBRUARY - M21					MARCH - M22				
		30	6	13	20	27	5	12	19	26	4	11	18	25	31	
TRIGGER	Int. Day	Year				26(0) Clean Energy 28 Data protection		11 Women in Science 14 Energy Day	18 Battery Day		4 Engineering 5 Energy Efficiency 6 Women	9(0) Check your batteries				
	HB D&C activity											3rd newsletter				
	HB MGT/tech activity															
	Other	as	Holidays		21 B2030 Excellence Seminar						5-6 Battery Roundtable EU	11 Joint event CRM and batteries by 3rd newsletter (as req.)			3-4 Joint conf. projects	
WEBSITE	HB															
	Field and values															
	CSA or related															
LINKEDIN	HB	oop + happy new		Review Meeting EC	Milestone achieved	28 DMP on Data Protection Day			Newsletter subscription	Success Story CP web		3rd newsletter	HB Global achievements	Stefan at B2030 event	Interview to Bruno	
	Field and values							11 Women in science								
	CSA or related		B2030 Annual Conference STD				OpenCharge event advertise				B2030 AC abstracts / req.					

Figure 8. Excerpt from the HEALING BAT content calendar.

Besides publishing the different posts, different techniques are being implemented to increase the **engagement of users** on social media, such as tagging related profiles, institutions, and projects, encouraging partners to interact with the posts to grow within their existing communities, responding to comments and mentions by followers, interacting with contents of related profiles, etc. Special attention is paid to Battery 2030+ and those of the projects involved in it.

5.2.2. LinkedIn page



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5.2.2.1. LinkedIn posts

TITLE AND LINK	DATE (MM-DD-YYYY)	IMPRESSIONS
 How will the hashtag#HealingBat solution work at...	05/13/2025	1,036
 Find us at the BATTERY 2030+ Annual Conference...	05/06/2025	255
We were honoured to share our updates in the last ...	04/23/2025	83
 Today, we celebrate the World Creativity and #In...	04/11/2025	264
 What is the ambition of the #HealingBat project?...	04/07/2025	303
 #TBT to this radio interview about #HealingBat ...	03/18/2025	280
 Last week, our project coordinator Stefan Palzer...	03/25/2025	596
Which strategic objectives are leading us towards ...	03/18/2025	377
 Our 3rd newsletter is out! Subscribe now at this...	03/11/2025	277
 Take part in the flagship event on #batteryrese...	03/04/2025	223
We're thrilled to share the first #HealingBat succ...	02/24/2025	582
Our next biannual newsletter is already in prepara...	02/17/2025	402
We are grateful for having in our team Paulina R. ...	02/11/2025	440
 Today we celebrate the International Day of Wo...	02/10/2025	772
 OPINCHARGE and OPERA Project (Horizon Europe), o...	02/03/2025	324
This Tuesday we celebrated the International #Data...	01/29/2025	180
 We are pleased to announce that we have complete...	01/21/2025	845
 Last week, we had a fruitful Review Meeting with...	01/13/2025	1,771
 Good news for #battery lovers to start the year ...	01/07/2025	390
#2024recap for #HealingBat   As we wrap up 2024,...	01/03/2025	704
The 1st scientific publication of the #HealingBat ...	12/10/2024	890
 Find out everything about the last consortium me...	12/09/2024	787
 Colleagues from our partner Coventry University ...	12/04/2024	222
 Over the last two days, the #HealingBat project ...	11/29/2024	2,898
 Earlier this month, our partner IREC - Institut ...	11/18/2024	1,228
Yesterday was the UN World #ScienceDay  In #Healin...	11/07/2024	276
 Our partner IREC - Institut de Recerca en Energi...	11/05/2024	935
 Last week, our partner CPI had a meeting with In...	10/21/2024	1,130
 Are you interested in innovation towards #selfhe...	10/15/2024	742
The #HealingBat project is made possible by a cons...	10/07/2024	1,273
 Today we commemorate the World's #EnergyStorageD...	09/20/2024	236
 #TBT to #HealingBat's presentation at the Batter...	09/16/2024	331
Get a glimpse of the #HealingBat project in our of...	08/29/2024	905
 The Swiss Battery Days are here! Our partner PSI...	08/14/2024	1,252
Our LinkedIn community has reached 300 people...	08/13/2024	433
 Our partner Coventry University participated in ...	08/05/2024	499
Did you know that #HealingBat took part in the las...	07/16/2024	1,020
 Exciting news! Registration is now open for the ...	07/08/2024	456
Find out everything about our last General Assembl...	07/02/2024	681
 Find out about our latest developments, events, ...	06/26/2024	673
Have a look at #HealingBat's project methodology i...	06/17/2024	490
#JobAlert  New vacancy for the #HealingBat projec...	06/03/2024	613

Table 5. LinkedIn posts published.

Note: posts that are older than one year are automatically erased from the LinkedIn platform, both for the users and the page manager.

5.2.2.2. LinkedIn monitoring

During this 12-month period (M13-M24), **42 posts** have been published, which makes an average of **3.5 posts per month**, above the target of 3 posts per month set in the KPI. These posts have achieved a total of **26,783 impressions** and an average **engagement rate of 9.9%**.

Taking into account the full time frame since the social media launch on January 2024, a total of 60 posts have been published, making the same average of 3.5 posts per month.

Today, the LinkedIn page already has a community of **450 followers**, thanks to the frequent posts, content of high quality to the target groups and efforts to foster user engagement.

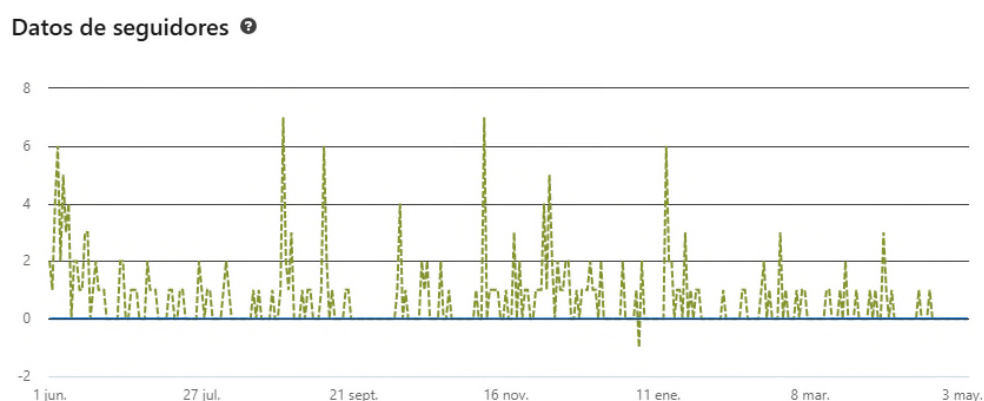


Figure 9. Evolution of new LinkedIn followers.

5.2.3. Twitter/X profile

During this 12-month period (M13-M24), 43 new tweets have been published (including threads), which makes an average of **3.5 tweets per month**, above the target set for this KPI. Taking into account the full time frame since the social media launch on January 2024, a total of 60 tweets have been published, making the same average of 3.4 tweets per month.

Unfortunately, the X platform does no longer allow for the free download of structured data of the tweets that have been published, nor it allows to access aggregated data of the total number of impressions achieved and their engagement rates. However, all tweets are publicly available through the [X profile of HEALING BAT](#).

Today, the Twitter profile page already has a community of **80 followers** and has been negatively impacted by the massive leave of the platform by many researchers, organisations and projects due to the current global political context, including [the leave of our CSA Battery 2030+](#).

5.2.4. YouTube channel

As defined in the communication and dissemination plan (D7.1), the YouTube channel is being used merely as a repository for the project videos, to be able to embed them in other online channels and materials, but not as a social network to be dynamised.

So far, FI Group is currently working on the **first project video** that will be published on [YouTube channel](#) as soon as it is approved by the consortium. Moreover, the **radio interview to FI Group** about the HEALING BAT project has also been uploaded on the YouTube channel (see the media section for further details) - [available at this link](#).



Figure 10 - First interview of the project

5.3. Project newsletters

The second and third newsletters were released between M13 and M24. As planned, the [second newsletter](#) was released on June’2024.

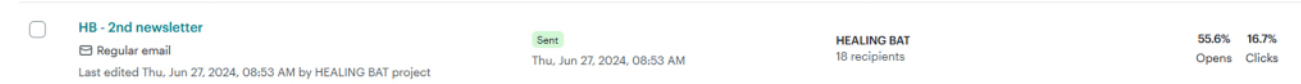


Figure 11. Performance of the second newsletter (MailChimp Analytics).

After the Review of the Plan of Communication and Dissemination (D7.8) in November 2024, when starting to plan the release of the third newsletter, another campaign was implemented to grow the community of newsletter subscribers, linking to the subscription form on the website. This campaign was disseminated on Social Media, through project partners and through Battery2030+ CSA, especially in the Communication and Dissemination working group.

This campaign has two phases:

- 1. Disseminate and attract users to HEALING BAT’s community by sharing a short video and the website link to subscribe the newsletter.

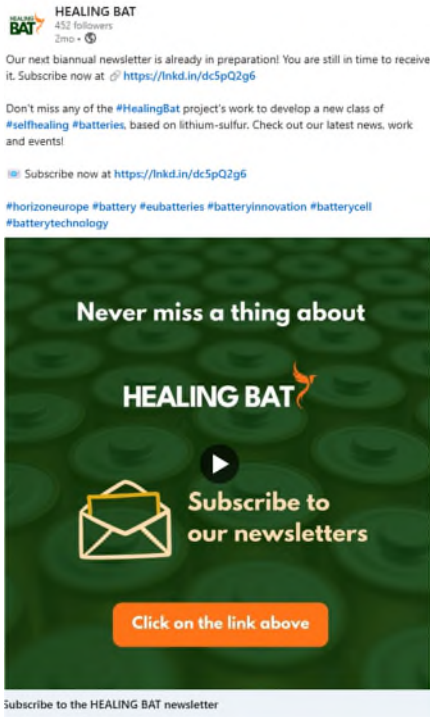


Figure 12. Social Media campaign for newsletter subscription before releasing it

2. After monitoring the campaign and considering the increase of subscribers and the Communication and Dissemination Plan, the **third newsletter** was released and disseminated in all channels, again with the message to collect more subscribers in an ongoing basis.

☐	HB - 3 newsletter	Sent	HEALING BAT	46.4%	7.1%
	Regular email	Mon, Mar 10, 05:56 PM	29 recipients	Opens	Clicks
	Last edited Mon, Mar 10, 05:56 PM by HEALING BAT project				

Figure 13. Performance of the third newsletter (MailChimp Analytics).

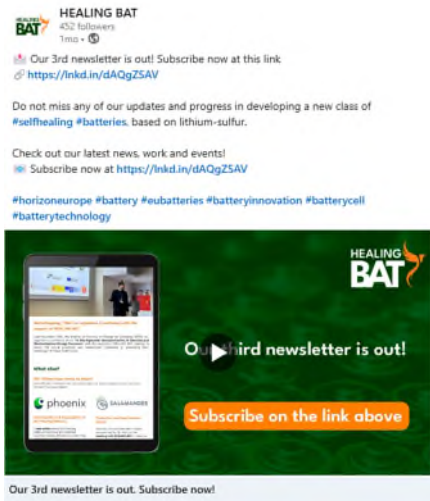


Figure 14. Social Media campaign for newsletter subscription after releasing it

All newsletters are available at the project website ([Resources section](#)).

5.4. Project videos

FI Group is producing the **first video** of the project to be published online shortly. This video will serve to present the main scope and information of the project in an engaging and easily understandable way. The video, which follows a motion graphics format, introduces the project's aim to develop self-healing batteries, explains its innovative solution and the impact it aims to achieve in Europe, indicates its time frame and budget, and shows the diversity and reputation of its consortium, among other issues. This video is planned to be published on [HEALING BAT's YouTube channel](#), linked on the [Resources section](#) of the website, and will be shared on social media and the newsletter. Moreover, it will be available to the consortium to show it at any event or meeting, and to share it on any communication channel to present the project in an easy and engaging way.

5.5. Supporting materials and contents

A series of communication materials and contents are foreseen to be produced within the project to feed its communication channels and support their publications. They are to be shared in the project's communication channels and also used by partners in any communication or event about the project. All of them are also available in the [Resources section](#) of the website.

Specifically, **project infographics** are to be produced to represent complex information in a visual and easily understandable way. During this period, FI Group has developed the **second project infographic**, presenting an overview of the HEALING BAT solution, showing the relations and flow between the battery modelling, the lithium-sulfur cell (with its battery components and sensors), and the advanced monitoring of battery cells (with the battery management system and the digital twin). The infographic, designed by FI Group over an archaic graphic produced during the proposal stage, has been uploaded to the [Resources section](#) of the website and will soon be shared on the project's social media and newsletter.

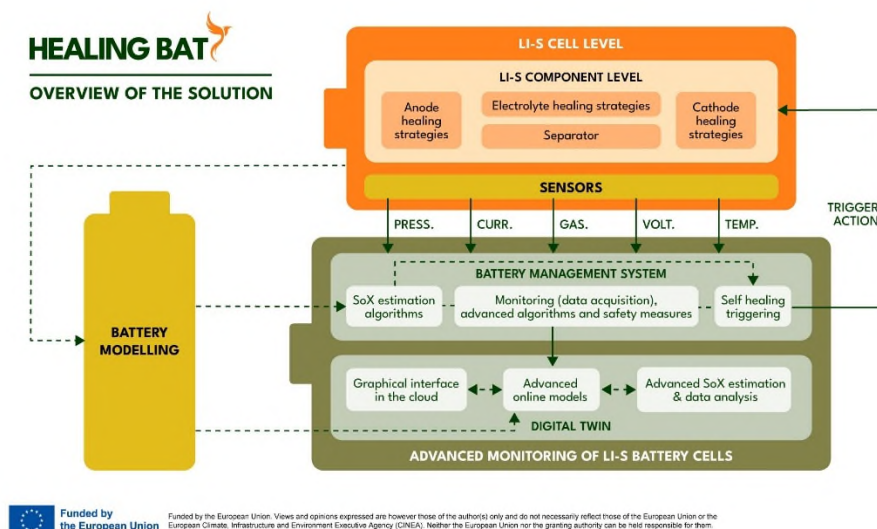


Figure 15. HEALING BAT's second infographic.

Moreover, FI Group has designed a **consortium map visual** with the visual identity of the project, showing the origins and logos of each partner in the consortium.



Figure 16. HEALING BAT's consortium map.

The **first success story** of the project was also published during this period, under the title [Pioneering Next-Gen Battery Technology with the First Thin-Film Innovative Prototype Sensors](#). The article highlights the importance of the collaborative work between CPI and Coventry University to develop thin sensors to measure real-time temperature within a battery pouch cell, as a multidisciplinary initiative. More success stories and good practices are expected to be published in the coming months, as the project progresses and reaches impactful achievements.

5.6. Press releases, articles, and interviews

The update in this section is the interview about the HEALING BAT project during the Portugal Mobi Summit 2023. [Bruna Fonseca](#), EU Grants Manager at [FI Group Portugal](#), gave an interview about the HEALING BAT project on July 26th 2023 at [TSF Rádio Notícias](#), on the occasion of the Portugal Mobi Summit 2023.

It was published with English transcription on the [website of the project](#), [Youtube channel](#), [LinkedIn](#) and [Twitter](#).



Figure 17. Interview of the project published on the website, Youtube, LinkedIn and Twitter / X

It took a while getting authorization from the journalist to publish it and that's why it was published in the second year of the project and not in the first one.

One interview is the KPI to the whole project, but some efforts will be done to get at least one more interview.

5.7. Scientific journals and sectorial magazines

The first scientific paper was recently published in the [resources webpage](#) of HEALING BAT's website and it will be disseminated in other communication channels too.

6. OFFLINE COMMUNICATION AND DISSEMINATION TOOLS

6.1. Events, workshops and conferences

6.1.1. Participation in third-party events

- [Battery Innovation Days 2024](#) (26 – 27 November 2024)
Coventry University (COV) partner has represented HEALING BAT project in this event. This was promoted on [LinkedIn](#) and [X/Twitter](#).
- [CrowdHelix's Circular Economy and Materials event](#) (29 – 30 April 2025)
CPI partner has participated in this event. It was a brokerage event. The representation for HEALING BAT ended up in knowledge sharing on the objectives of the project during breakout networking sessions. CPI did not end up doing an elevator pitch of themselves and the work currently doing for HEALING BAT project.



Figure 18. CPI participation picture in the event

6.1.2. IREC partner workshop organization with HEALING BAT support

- [In Situ/Operando Characterization of Chemical and Electrochemical Energy Processes* with the support of HEALING BAT](#) (8 November 2024)
Full information regarding this workshop can be found on the [project's website](#)

6.1.3. Participation in clustering events related to Battery 2030+

- [Battery 2030+ Annual Conference 2025](#) (6 – 7 May 2025)

HEALING BAT project has participated in Battery 2030+ Annual Conference in two different ways: TU Dortmund shared a presentation about battery functionality on the 6th of May and Helmholtz-Zentrum Berlin (HZB) participated in the poster session.

TU Dortmund, in collaboration with sister projects – PHOENIX and SALAMANDER (see [section 8.1 Collaborations with sister projects PHOENIX and SALAMANDER](#)) – shared a presentation slot integrated in [1 Session: Battery Functionality and Interface](#). This was promoted on Social Media ([LinkedIn](#) and [X / Twitter](#)) and will be communicated on the website and newsletter soon.

Helmholtz-Zentrum Berlin (HZB) has participated in the **poster session** with the purpose of reporting recent progress on self-healing strategies at the lithium metal anode in Li-S batteries, which constitutes a key deliverable of the HEALING BAT project. This has included a poster presentation about findings, by exchanging ideas and methodologies with other partners, and receiving feedback from the broader research community. This participation contributes to enhance project visibility, to peer validation, and support the development of future collaborations on scaling and modelling efforts. Soon this participation will be published in the online channels of HEALING BAT project.

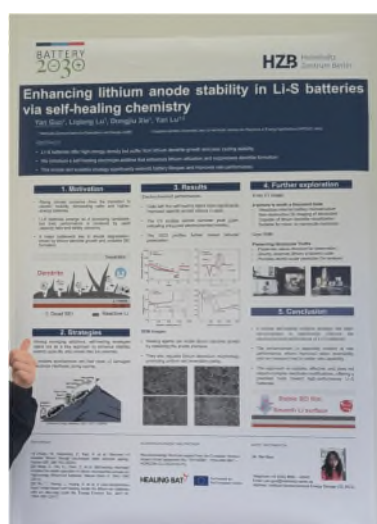


Figure 19. HZB poster presentation on the 2030+ Annual Conference

- [Battery 2030+ Roadmap Workshop 2025](#) (19 March 2025)
 On 19th of March 2025, Battery 2030+ organized the Roadmap workshop, hosted by Work Package Leader 2 (KIT/CELEST), brought together all 17 projects under the Battery 2030+ initiative, along with members of the CSA3. HEALING BAT's project coordinator, Stefan Palzer from TU Dortmund has participated and represented the project. FI Group has posted this participation on Social Media ([LinkedIn](#) and [X / Twitter](#)).

6.2. Offline promotional materials

FI Group has **updated the brochure, roll-up and poster** of the project to correct the funding statement of the European Union, replacing “co-funded” with “funded”, following the indications of the project officer in the review process of Reporting Period 1. The materials are available to the partners through



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the Sciebo internal sharing platform, as digital files that can be printed and brought to any event that might come up, as well as used in any onsite visit or occasion. They are also free to be downloaded from the [Resources section](#) of the website.

FI Group has also developed a **PowerPoint presentation** aimed at providing a **general overview of the project**. The presentation has 34 slides and goes from introducing the project's scope and main data, to explaining our roadmap to self-healing, to describing our work packages and presenting the role of each consortium partner, among other aspects. This presentation was developed by FI Group and shared with the consortium for feedback and suggestions. It is available for any partner to present the project at any event or meeting, and it can also be downloaded from the [Resources section](#) of the website.

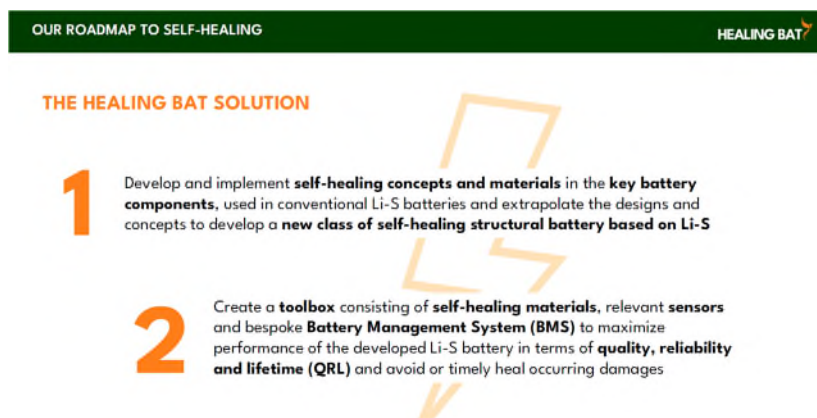


Figure 20. HEALING BAT's general overview presentation.

7. ACTIVITIES BY PARTNERS

Similarly to what FI Group has reported on D7.3 – Report on dissemination, exploitation and communication, to collect information on the publications, and communication and dissemination activities performed by the partners of HEALING BAT, a form was sent to all partners to collect their activities in the last year (M13 – 24).

Regarding third-party events and clustering events related to Battery 2030+ to disseminate the project, please see section 6.1 – Events, workshops and conferences.

To complement partners answers, FI Group has tracked the activities listed below:

TYPE OF ACTION	ACTION	PARTNER
Scientific Publication	<i>Mechanistic Insights and Technical Challenges in Sulfur-Based Batteries: A Comprehensive In Situ/Operando Monitoring Toolbox</i> Available on HEALING BAT website	TUD, COV, HZB, IREC
Website reference	Financiamento Europeu FI Group Portugal	FIG
Website reference	Battery Electrodes and Cells Laboratory for Battery Science (LBS) PSI	PSI
Social media post	Battery Innovation Days 2024, Tue, Nov 26th, 2024 @ 10:00 AM Accelevents IREC - Institut de Recerca en Energia de Catalunya	IREC
Social media post	HEALING BAT's project methodology IREC - Institut de Recerca en Energia de Catalunya	IREC
Social media post	#smartcells #sensors #horizon #batteries #batteryresearch #healingbat David Johnson	CPI

Table 6. Activities by partners

In addition, the consortium partners kept contributing to some of the project communication actions implemented by FI Group, especially by reviewing some communication publications and materials (visual identity, press releases, newsletters, promotional materials, etc.) and providing their inputs for the website content (information on their organisation, their activities in the project, and the events they took part in).



8. CONTRIBUTIONS TO BATTERY 2030+

HEALING BAT's participation in the CSA Battery 2030+ initiative remains as it is described in the **D7.3 – Report on dissemination, exploitation and communication**. FI Group regularly participates in the Communication and Dissemination working group, TU Dortmund participates in the Collaboration Board meetings and recently joined the Exploitation group.

As a result, FI Group has implemented a series of **communication actions** about, or in collaboration with, Battery 2030+ and its projects, including what was previously reported and adding in this second year:

- Sharing information on upcoming Battery 2030+ events with the HEALING BAT consortium, at all consortium meetings and by email.

Providing content to feed Battery 2030+'s campaign for Women's Day in 2025: [Battery2030+ Women in Science Day initiative](#)

- A series of social media posts on HEALING BAT's channels to promote Battery 2030+ events, including the Battery 2030+ Annual Conference 2025 (see Section 5.2).

Moreover, the project coordinator TU Dortmund has participated in a series of **events** organised by either Battery 2030+ or its projects. More information on these events can be found in **section 6.1.3 Participation in clustering events related to Battery 2030+**.

8.1. Collaborations with sister projects PHOENIX and SALAMANDER

Although collaborations with sister projects began and were reported in **D7.3 (M12)**, the consortium has been expanding these collaborations as the projects' research and development progress.

FI Group has been constantly in touch with Communication and Dissemination responsible from each project to increase the visibility of all projects and find other collaborations' opportunities. The first workshop of the project is under discussions to be co-organized until the end of 2025. Besides this, it's constantly shared between the three projects' communication channels the updates and activities of all:

- We have been sharing updates to be used in each newsletter (see section 5.3 Project newsletters);
- On Social Media, the content of each project is constantly shared by each other as well as reactions to each other's posts.
- On Battery2030+ Annual Conference 2025, the three projects shared a slot in a joint presentation (see **section 6.1.3 Participation in clustering events related to Battery 2030+**).

9. EXPLOITATION OF RESULTS

During this 18 months of the project, exploitation has changed as it is a live process that evolves with the course of the project. As so, the exploitation plan will be updated regularly and when necessary. In D26 Plan for Dissemination and Exploitation, including Communication activities (M6) the preliminary exploitation strategy was outlined defining 3 main phases for the project lifetime:

- **Initial phase (M12):** this phase included a preliminary exploitation plan, which mapped out a plan the different exploitation phases and identified preliminary Key Exploitable Results (KERs) and target users. This plan was documented in deliverable D26 (M6) and in D28 (M12).
- **Mid phase (M18):** this phase involved the development of an updated exploitation plan (D33, M18). This plan included a fine-tuning assessment of KERs and target users. The first Intellectual Property Rights (IPR) Strategy Plan was also developed during this phase (D30, by M18).
- **Final phase (M48):** Finalisation of key exploitable results and exploitation agreement beyond project lifetime.

The exploitation strategy for HEALING BAT is **designed to ensure the project's results have a lasting impact and remain sustainable**. This strategy is divided into several key phases and activities. Currently, in the mid to final phase, FI Group has refined HEALING BAT's exploitation strategy, including the IPR strategy plan (D30). This phase involves a detailed characterization of KERs in collaboration with all partners, market analysis, and the development of tailored exploitation strategies – the IPR Strategy Plan further iterates on Strategic Notes on Exploitation Plan (please refer to *D35 IPR Strategy Plan – Section 4.1.6*, M18).

In the final phase (M48), the project will finalize the KERs, ensuring that all exploitable results are well-defined and protected, along with establishing an exploitation agreement that extends beyond the project's duration. A Results Ownership List (ROL) will be delivered as the final output of this exploitation plan, together with the final report update (D35, M18).

To date, partners have reviewed the KERs to confirm the preliminary findings from D26. FI Group has drafted and updated a new table in the section on Preliminary Key Exploitable Results (KERs) of the initial plan (D33). This table is a dynamic document that will be continuously updated throughout the project as technological advancements emerge. The exploitation strategy will be revised at each consortium meeting and reflected in periodic reports and deliverables, detailing all dissemination, communication, and exploitation activities. Through an online form, all partners contribute to updating this table, while FI Group monitors and manages the exploitation strategy.

Partner	Potential Exploitable Result	Related WP(s) and task(s)
HZB, CPI	1. An optimised electrolyte formulation (using electrostatic shielding additives) for Li-S cells (and potentially Li-metal cells more broadly) that minimises Li dendrite growth and achieves high coulombic efficiency at realistic current and plating densities. 2. Improved cycle life of Li-S cells from the development and optimisation of ALD coatings on the separator material. 3. Improved cycle life of Li-S cells from the development and optimisation of an artificial SEI layer on the Li metal anode using ALD/MLD coatings.	WP2.2/2.3
COV	1. Viable encapsulation mechanism for lightweighted sensor devices and have developed a test to prove the integrity of these coatings.	WP3

	2. Developed inkjet printable ink for sensor device fabrication for embedded battery sensors.	
CPI	1. Life cycle assessment (LCA) of Li-S battery technology with quantified environmental footprint of self-healing concepts 2. Techno-economic assessment (TEA) of the feasibility of Li-S battery technology production scale up	WP6
IDN, COV	1. New battery management system hardware and software for new generation of battery cells with self-healing mechanism	WP5 / 5.2
CPI	1. PIM Prototype sensor and heater demonstrated inside a cell	WP3, WP4

Table 7. Key Exploitable Results updated on M18 (retrieved from D33).

9.1. Next steps

Beyond month 24, the focus will shift towards **the final phase of the project**, which includes finalizing the exploitation plan, continuous stakeholder engagement, and commercialization activities (developing business plans and conducting market analysis). The final phase will involve refining the final exploitation plan, and planning dissemination and communication activities to raise awareness and visibility of the project's outcomes. This phase will also include ongoing collaboration with stakeholders to enable implementation at scale, continuous patent filings as needed, and finalization and commercialization activities. These efforts will ensure the sustainability and long-term impact of the HEALING BAT project, paving the way for successful commercialization, policy influence, further research, and societal benefits of its outcomes.

10. CONCLUSIONS

The present document outlines Deliverable D34 Report on Dissemination (including Publications and Events), Exploitation, Communication Measures and Materials – Update 1 of the HEALING BAT project.

Most KPI targets established in Deliverable D7.1 are progressing well, with some – such as website views and the number of social media posts – exceeding expectations at this stage of the project. Scientific publications and success stories have begun to emerge, in line with the project's research development and activity timeline.

It is also important to note that, following guidance received after the reporting period, all communication materials and document templates have been updated to include the correct EU statement.

The project's social media presence continues to grow, with 462 followers on LinkedIn and 80 followers on Twitter/X, contributing to increased visibility and awareness. Additionally, the consortium has participated in five third-party events to disseminate project outcomes and engage in clustering and networking activities with stakeholders.

HEALING BAT has actively contributed to the Battery 2030+ Communication Working Group, participating in monthly meetings and implementing a range of communication activities in collaboration with Battery 2030+ and its associated projects. The consortium has also taken part in several events organized by Battery 2030+ or its partner projects.

Overall, the second year of the project (Months 13–24) marks a significant transition from raising awareness to actively engaging stakeholders and disseminating impactful results. Through strategic communication, participation in key events, and strengthened collaboration with sister projects and the BATTERY 2030+ initiative, the project has successfully broadened its reach and influence. The efforts led by the consortium have ensured consistent progress and alignment with the project's objectives. These foundations will support continued innovation in self-healing battery technologies and reinforce Europe's leadership in sustainable energy storage solutions.

